









	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
1000	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....																		
30530012.q	LFM -NGPGYEVHKIKLARRVLHLDTGT	QMLGGDS	YNQRWILDLD	-DKLFRVSADMN-VFITLGCGFFIGSSPAAGDNAATSSSNCVSNCRPGYPILAIDG												TGKIGICCNASVVEDHNS	YTICKLSSLQS		
AK099582.q																			
83525202.q	LFMATD -NGTVVQLNISLPLDTGTVRVEKLS	QSSIIAGS	-SSSSNASSERSDLADPDPFTVSSAYN-WLVAEGCN	-IVADLTPYG-NIADGSSAACACIDGWQNFAGP												SGSGIARCTSVGRVWHS	YTIVQVTSLLID		
24770015.q	LIAVIDSQSNLEIHESLSDAGEARYNNAS	RSLYNHS	TGDLVRTRNDVVYFLREG	PYRFFSAKRNRFVAL GCPNLGLLDDATENY	-VTGCISICRS-SPLAVSAG											AAGVGCCQSSIPSGLHT	YY-VNQ		
83573244.q	LIVSNSTGGRHRQQLLSLSLADGEARTFLTAK	RRCYNS	TGDMVSENQNATEMSLST	-PYRFFERSRNRRLVAL GCRNLYALVDRGGSY	-ISSCTSTICR-TPEVAAGST										VGFGECCSISIPSYVDV	YKPDILGFKQ			
83591574.q	MTTSWAL	TMDFTKD	DLDLAEADP	-SATRALSAVA-AAATIPILQPSNCR-SQPKPAG											GVDGRGEAS				
83573241.q	LMIGN -STLQVNVNISLANSTLRAVDIDG	AVNITYG	QID	-GNGTWGVVVAS-PYLVNETLNQLLVT-GCNIQVTLVGSNN	-VLSGCCSFCISINDMTGGVFRSP										GNKCAJGICCCQQVSIQGRPS	YRVELTNLDR			
83573245.q	LMIGN -STLQVNVNISLANSTLRAVDIDG	AVNITYD	-VWSGT-TGNTWGGVVAAT-1NPVYSGEINQLLVT-ACNIQVTLVGSNN	-VITGCCSFCISINDKTYGGVAT-ACNIQVTLVGSNN										-GNKCAJGICCCQTPISIQRPS	YSVKVITIMDN				
AK107166.q	LMLGN	GTQVVDISLANSSTVRAIDLADG	AVNFYD	-VEKLAPSGSGTSWLSLTGVAGAGPVYVSEQRNRLVTT-GCNCVQATLGENNT	-IIIGCCSFCISVEMTSVAAATVPPVAGAHD										NAIDGFFCGTSGTCCETPIAIGRPS	YLVQFLSLDQ			
AK102702.q	LLLGDGA	AAFQVLNVNISVINAATVRAARVGG	-INITYGGGNTSISADEGRGAWRGLGDGG	-PFALSEDRNELVWVNGCDVALLTDGGSGNSNSNTISGCAFPGTDAGGQAIAAPAG	-ST										MSLTEDRRCGVCVCCGMPILSVGRDS	YQVRLRRRN			
30530011.q	LFLGDG	SVEVLEISIPSGTVRINSSSI	FPVSTSS	-AVGTGSVNTKGKYHTWGLRKGGPFIFSYKNKFLVLSCSNVQVLLGGDNST	-VNACATVCPAPKKGQFQFPMR										NECSGIGCCSAAIPKGYS	YSIQIQPANE			
69020007.p																			
AK067363.p																			
83571410.q	LFLGDG	-SVQVLDISVPHGWLAINNTGM	VFNSTETRVRVNLNRTWDOLVGPPYSLSGSNKIALVGCNARVDRARVKVXHGRGGDDDTGSN	-LISCTCATCPDLEDMPVFAIG											SGSSAAACGVCVCCGADINLDIPS	SYTIQIHNQOE			
30530009.q	LFLGDG	TVQVLEIAFPQATVRINSGRM	VFNSTGN-HAVNRSLLDQGVPYVVAASNRKIALLSCNARVDRVA	-ACRN-NNKTSIK	-LISCTCATCPDTDGGATTILDIG										PEGP-CGIGICCTSMILLAGGSTA	AYSIQVNLQCE			
83522182.q	LGQGTE	VIEDIDAIVYGSTNS-Y	LFMVFVTVDFSHAFVPSGTCRDYNSMKWAPGRSFTLD	-NALLNITOCDFDIYLLQDR	-NSAVRLCITVCPNBEITEKVARON										CNGTCCPCTIELFEATLASFQKFVQHKSKGGL				
83522181.p	LN	AVAAAG		AAPWP											CIDP				
83521928.q	LHDGVT	EIIGDTSSFDMDVG	STESIDVNISSTIPMLSSISHNYNSWNL-SFSIE	-YVILNITGCNFDTYIIINPDT	-DIRTRICRNCPKEEITEAVARQS									CNGTCCPCTFYDIYG-VANLQLSFSVRGDEGLL					
52150020.p	LN-NGS	TEVGLDIDGVGLNIXY-FI	HFNLPIMPTVSHIPNSGSDVYNSWKNPKGDSFTFARQGMFTVVTSCDLDVYMDQEK	-STPILGTTIACPKESIAEMVYRQD	-STPILGTTIACPKESIAEMVYRQD									SGPGWYIIDS-LPARVTVQFLQFVFRHTGNT					
AK099018.p	LNHINES	VEVIDNIEVVKGDIAEFF	YENFFMPMVAFNHLIPKAGDVYNNLTKAPKGFTTIS-EMMIITVSCDLDLFLVFIGD	-NTPKLLCMVCACPNKEIADMVYMOD	-NTPKLLCMVCACPNKEIADMVYMOD									CGPGCCTCFLVSE-TVPCVQVQLOFVFRHETSNA					
83522734.q	LL	-LRNVEVLGISLPLQQA	RKMKMDMSYDCYNTTRKDIDCVMDSLNLKGSPFTFSDTANKFIVFGCRMLAYLGPQEONDVG	-SNLTIGCAAATGIGDDDLVINSAG										CGIGCCQT					
83522718.p	LLRKVQ	PLRSVSEVLGISLPLQQL	RMRMFMMSHCYNMTRDVGWMDLTGSPFTFSANDSKTAFQCQVLYLAGCE-RDIG	-SNLRIGCAA-C-DDSATTGGR										CGIGCCQT					
83110024.p			MTKHDMDCVKDANKL-SLTGSPFTFSNSANKFTVFCRMLGYLPGQGSVAG-SNLITGCACTCGQGDDDLISINGEG											CGIGCCQT					
48850026.q	TSTKTP	KLYMKDGTQILYVGDD	DLWA-PMHFNITMKG-TDTYNTISWWSRERKGVTISQRTNTFYII	-DAVGYCVCSDGEKEVTEG	-P									CNGKCCSIKL					
48850023.q	TATKTP	KLLVANSTQTITAMEYD	MALAPMAGNFTTRQG-MDTYNTISWWSRERKGVTISQRTNTFYVCCNFDAFTLFEFGT	-DFVGSMSMCSDGDEKAPIAQG	-P									CNGKCCSICKL					
48850022.p	NTAKTP	KTDLGDGTTEITDLYCR	YVLAQIYFNTVPRG-TDTYNTISWVAFTETIDHYNTVVICNFDAFTLFEFGT	-DLGSCMSMCSDGDEKAPIAQG	-P									CNGMCCPFIK					
83530350.q	NTTHPP	TLLANTTTKVGQSGRT	LEVIEIPAIANIAUNNSIIIDYIYRVVSPANGFTVNESTLEFVIECQGEAFLFDLDTIN	-ETMGSCITCQSDNLGQIMEMHGD										CGIGCCCHIV					
27680022.p																			
41270019.p	IADLLS	NKINASTIGASMAYLSTV	IADEPNCPATARLDNKTQFACGSNNCIDVANGGYSCACPGNSDDGNPYLDDCKQEFNP	-TPKKNCRSICGTSNIPPPFG										LEPOCFAKRR					
AK102639.p		MGPVILCLATAAAATAV	CAASSGAPP	-PDAAAAVAVGSCPTVYSGSGYSSADGGN	-QEEYDP-NKENPKRACGMSMIPFPFA									LLSACSGSSKR					
27680013.p														LQECCSANRK					
48850017.p	EQSSVK	ACLTQTVTAHPRTKQPM	AVETLNAMSRGTAVATAPMVI	-PMGFLTLKKAVLRFQSNSNKYLEVPPVPHGRGYNP	-FPKGICRNCPGNTNVEPPFG									LEECYCALEK					
83582755.q	KLKVLR	FELAQQEVLIQKQ	-IATSCCVNLTKAVGVPWVNLHGGALDYYPLTIS	-TNKQFAVVCQGTTAIVQVQGENQD	-YVTFGRCSICDPPDNEINBDNNTQCN									GNTCCCASIPGKNAKAFQPSFLKISCVNVS					
18394970.p		EDRPVHLSDIEVANFNH	-EDRPVHLSDIEVANFNH	-SSQQLRNLNSSTCCTDEQKGKTEEDSFTTLE	-LSSLSSANNNKLTAVGCNNSLLSDIFGMCN									CNGRCCR-VDVSPALDSDYTFETTSGRKJHM					
15218171.p	EEKLLLFGIIQVNTNISH	SGHVSVLFLERFSECYEQKNETNGTALGYQLGSSFSLSNSNNKFTLVCNALSLLSTFGKQ	YSTGCLSLCNSQ	-PEANR										CNGVCCCTTEDFSVFDSDTFQFGSVRLRNQ					
15218170.p	EDKVNLSNIEVFLNPNH	SQLQRGLIPIRSTVYCDQTSFESLNRFLDN-SLSFSPNNKFTLVCNNSAWALLSTFGQICN	YSTGCMSCSODTP	-PPPNK										CNGVCCCTEVSIPFLDHSHRIETQPSRFEMM					
15230844.p														VIA					
15218959.p	EQEKLLFFGNMVPINMSL	SGQRLRVRVLSRVYCDSQGKTDYLIAQRTTLLGNTLTS	ELNRFITVVCNCSYAFLRTSGVKE	-YSTGICSIQDGS-A-TTKINGS										CGIGCCQ	IPVRYGYSFVVRKPHSFHNS				
15218167.p	NENLYFKYQLEVVEI	SSQQLRVLVYPA	YICYNKGFPAKTYWVNSLGNLTS	-LTSQNTTALCAGCNSYAFVPSNGT	-NSVGCISACDLSHEANGE									CGIGCCQ	NPVPAQNCNMLIYVRSYFVFDND				
83524721.p	IGENIYKIDK	VSVFHEFITVRAQGPIQ	QVYCDYDRNRP	-VVGSTGIG	-GTPNTLTDPPFFF									IFNGSCADKACCT					
53720019.q	IGHQKFRDQ	VSSQEGFWVILFAPIGY	RLCYDRNRP	-PTNLTIDPPFFF	-KNTLVTATCCTTFS									DGICGTAACDAY					
53720022.q	LG-GNYSVLS	ISLLELYGVYRVTGQTVY	SSQQLRNLNSSTCCTDEQKGKTEEDSFTTLE	-LSSLSSANNNKLTAVGCNNSLLSDIFGMCN	-YSTACL									IIISGECGVCQSSVPKGLINK					
53720023.p	INNMHFGILN	ISLDDGFTVSLASAT	SGQQLRNLNSSTCCTDEQKGKTEEDSFTTLE	-FSLLEGTFNFTSDTRNKFLTALCDGMVAMILNNS	-SGYGGCAGCFSCTK									IIDCMGSVCSQDTC	CGPKVCIKK				
30699443.p	APFLYKIN	RELVSTLRTSSIDS	SYGVVHVIKSPVSSGCSO	-RPVKPLPLNLTGKGSPPFTIDNSNRLVSVG	-OAKIPA-DRQVIGVQDLESS									LDK1CQGYI	CGAKIP				
15219445.p	APFLYKIN	RELVSTLRTSSIDS	SYGVVHVIKSPVSSGCSO	-RPVKPLPLNLTGKGSPPFTIDNSNRLVSVG	-OAKIPA-DRQVIGVQDLESS									CGAKIP	IPVRYGYSFVVRKPHSFHNS				
15219140.p	VPFLSIN	RELVNTIYLDPTTEYY	SGNVVHVIKSPVSSGCSO	-TSQPLTQPLNVAQGGSPPYLT	-TSQPLTQPLNVAQGGSPPYLT									VVRNKK1CSGNCCQTRIPE	QQQVIGVNLIEIPENK				
15219134.p	VPFLSIN	RELVNTIYLDPTTEYY	SGNVVHVIKSPVSSGCSO	-TSQPLTQPLNVAQGGSPPYLT	-TSQPLTQPLNVAQGGSPPYLT									EGRNKK1CQYCCGTC	TRIPE				
15219143.p	VPFLSIN	REVVNISLPEG-NNE	QXGVVHVIKSPVSSGCSO	-TSQPLTQPLNVAQGGSPPYLT	-TSQPLTQPLNVAQGGSPPYLT									IFNGSCADKACCT					
15219132.p	VPLLSMIN	REVVNISLPD-SNE	PYGLVQIKGPVTLSCGSSN	-TSEGPQNSLPLVNLTVKGSPYFLDENR	-TSEI									EVTNLICQGYCQCARLPV	ERQPAVGVNLIE-S				
15219130.p	VPFLSIN	SEVVNISLPD-GKK	LYGVVHVIKSPVSSGCSO	-TSEGPQNSLPLVNLTVKGSPYFLDENR	-TSEI									EVTNLICQGYCQCARLPV	ERQPAVGVNLIE-S				
15219137.p	GP-AKLN	REVVNISLPSDFDS	ISQGLQKLTGKGSPPFTIDNSNRLVSVG	-TSEGPQNSLPLVNLTVKGSPYFLDENR	-TSEI									EVGN1LICNGYCCQCARLPV	ERQPAVGVNLIE-ND				
15219447.p	VPFLSIIIN	REVVNSISFSDMYR	RFFNVYGGSIRIRNPIASKGCSSG	-QGEF-GSLLNMTG	-YFFYLGDNNMLI									ISIMNDTSICNGICCCASLP	ARYQQIIGVEIDDSN				
15222427.p	VPYLSVIN	KEVVGISLPLTEGRC	SRYNNQYQSVSNKINPKRCSN	-GEEL-GSLLNMTG	-TPFFVSVQNSLQEVNLAVGCNNTAISLN									MDESIMDTSICNGICCCASLP	NRGGSQIQQIVVTEIEN				
30688910.p	VPFLSIFIN	KEVVSISADSHFAVE	SDQPLFVSVQNSLQEVNLAVGCNNTAISLN	-GKES-GKES	-GKES-GKES									CIEETAEETGNGCQGKCCASLNS	EPQVIGVIRTEENDGNS				
22329045.p	VPFLSIVS	KEVVSISIHLP	GRQSPGFSVRVSPSITSGCSD	-GKDS-APVMLNTD	-SPFFVSDINNLGVGCGCSKSVLSEHIKQNNGVCGELNS									CITGNKPEDMGCGDRCCGASLSPR	EPQVIGVIRLESNDGK				
15223546.p	PFLFKMG	MAVNVLNISLPGDDGYN	-N-VSYGSVIRKIPVITSIGCSRD	-OFSYFGIGN	-SFTYFGIGN									TKNQEDERSDCGNCIAGLDDSEAQVQGINIESFDHG					
15220882.p	FPFLKPTIN	MEVNNISLPGDDGYN	TPSPFSSVIRKIPVITSIGCSRD	-OFSYFGIGN	-SFTYFGIGN									CNDS-GLTNTF	QDNFQKVGCSVSDSVTIRDLI				
15219181.p	ILLPLPRI	RAVTSFNLGDPFSIS	VVNFKTYQSPHLKSGCSCN	-DGYFSSSSNLKG	-SPFFISENNTFATVGCNNKA									KGANTSCWYVQCCMOTIPPLQLQFVDAIEKIE					
61820005.p	FDALNG	TSYPIITSASQZQ	SPYVQNSLQEVNLAVGCNNTAISLN	-TPFFVSVQNSLQEVNLAVGCNNTAISLN	-LNCSNSNLLC									ASACPLBLCCTFVAGGSQTSYRIR					
15241674.p	FGALHG	SSYVITTSINVITQ	TPPLRPPGLASSVSCISADV	-QGLELDP	-RPLFSTS									ASPC-KAPLCTTFRDGSQTSYIATIR					
15232348.p	FDTLNG	STNPKTTIDPSQSR	FVLRPPGQFEQ-NKCVSVSDIYK	-RQFSGPFCGASFSQATLTP	-ELFELL-DYKIL									RGNCRGVTSVCCWYKTAGVSNVNTYKVYR					
83520118.p			SLRGSQILVLSIDYN	-SSSVFAAHRVADGGDVCRIDFNIS	-SSLSPLFTI									MVILEBHP					
AK065470.p			NQSNQSSPSSALASCGHPAFWVNGGVA	-SLRGSQILVLSIDYN	-SSSVFAAHRVADGGDVCRIDFNIS									NGSR-DCGVV-ASMS-					
AK066381.p			VQFVSCGGYVLLDTCNDRG	-SLRGSQILVLSIDYN	-SSSVFAAHRVADGGDVCRIDFNIS									NGTEPEIDGLVNAITISSCSKPIYAYL					
AK012164.p			ATGETYDQYQFS-CGYDPLNITCSWQDGSK	-QTPFQIOLNGDNTYI	-SRTIVLVDTDALRGG									HVGQOLQRPCGNRIMGAYISDKW					
83534240.p			TIDQVWVVDGNTYRCYWGWLICICHDHR	-AIDRLRQGNYNTYVLEI	-NHTVTRSDASDODG									TPRVDKNOQINCKDFSNWEDGGSFVFTSVEL					
15221764.p			KQESFGCYSFELTCDDEK	-LFLVQIISSEB	-TPFFVSPGND									PPYIPIINCSTDFGRKDTAPSFAVQTPDV					
30697422.p			NMASIIISDHIFYNVNLHIDQT-SNTLRLAR	-AELEGSCFATYATT	-KIFERISSTYLTIVFYLCDP									IHLIEDFRYLTLCARTNSLLRGFVG					
22327431.p			RQICGHSLELHCVN	-NISTLIISSLMYVLEVN	-TSTI									KVSYRSSYTCGRCGVSV					
15222572.p			MPSRCGLEKLNCSNIP	-RQPCGHPSLQHQCQQT	-ELFELL-DYKIL									SLHYPAKF1-NKVGSIH					
67060018.p				-EIOLERDGKWWVTKSQCANTITI	-RLNQSLTLLGSDLSS									NSSRNGFQSYANCRCGE	SS-				
15222495.p			-SRATITIKN	-LTFISILHYSSISSLTSPITN	-TNTNCCSSLRFSPPNRFIDTGSPPF									PNCSCPWDCKL					
62820010.p			LLRPTNG	-TSTTMEPLSYAVVCKSFSNTAST	-FVVSLLFCNRTVSDARLWLTG									GTAASSPVTICPTMS	TEADMAK				
AK072425.p			LILPGGGGNNTTTTSYSSATNSNFSRST	-FVVALPFCNSR	-TNTVSDARLWLTG	</td													







	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
30530012.q	..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... ..... .....	KDIAERM IFSLEELERAKATNNFDFSRK LGGGGHGTVYKGILSDQRVVAIKKSRYAIFI DEFIN EV PLLVYEP NGT EV HLYHVNSA QSV KE RRIAL E S LAYLHSAS																	
AK099582.q		KVIAERM VTFLEELERAKATNFDDEM RK LGGGGHGTVYKGILSDQRVVAIKKSNTVFRKE DEFIN EV PLLVYEP NGT SDHLH BEGP TLS TKN RRIAL E S ALAYLHSAS																	
83525202.q		NKDIARM IFSLEELDGATNKFD CNR LGGGGHGTVYKGILSDQRVVAIKKSIVVFEI DEFIN EV PLLVYEP NGT SFHLH GONE NLK KD RRIAL E GAR A TAYLHSAS																	
24770015.q		NNDIARM IIPFLAELEAKATNFD DES E LGGGGHGTVYKGILSDLRVVAIKKSVALFEI DEFIN EV SLLIYEP NGT EV HLYHVGP LIG ED RRIAL E S ALAYLHSAS																	
83573244.q		KADIARM IIPFLAELEAKATNFD DES E LGGGGHGTVYKGILSDLRVVAIKKSVALFEI DEFIN EV PLLVYEP NGT LVDH BEGP TLS TKN RRIAL E TAYLHSAS																	
83591574.q		RADIARM IIPFLAELEAKATNFD DSR E LGGGGHGTVYKGILSDLRVVAIKKSIVVFEI DEFIN EV PLLVYEP NGT BHLHV DGP ISL SD RRIAL E GAR A TAYLHSAS																	
83573241.q		KADIARM IIPFLAELEAKATNFD DSR E LGGGGHGTVYKGILSDLRVVAIKKSIVVFEI DEFIN EV PLLVYEP NGT LVDH BEGP TLS TKN RRIAL E S ALAYLHSAS																	
83573245.q		KADIARM IIPFLAELEAKATNFD DSR E LGGGGHGTVYKGILSDLRVVAIKKSIVVFEI DEFIN EV PLLVYEP NGT LVDH BEGP TLS TKN RRIAL E S ALAYLHSAS																	
AKL07166.q		KADIARM IIPFLSELEAKATNFD DSR E LGGGGHGTVYKGILSDLRVVAIKKSKEAVFEI DEFIN EV PLLVYEP NGT LVDH BEGP TLS TKN RRIAL E S ALAYLHSAS																	
AKL102702.q		KADIARM IIPFLGELKKATANFD DRP E LGGGGHGTVYKGILSDLRVVAIKKSKEAVFEI DEFIN EV PLLVYEP NGT LVDH BEGP TLS TKN RRIAL E S ALAYLHSAS																	
30530011.q		KVIDGERM IPLSLEELERAKATNFD DSR E VGCGGHHGIVYKGILDLRVVAIKKSIVVFEI DEFIN EV PLLVYEP NGT LVDH BEGP TLS TKN RRIAL E S ALAYLHSAS																	
69020007.q		NTYFAERM IINLEELERAKATNFD DTRE E VDGHHGIVYKGILDLRVVAIKKSIVVFEI DEFIN EV PLLVYEP NGT LVDH BEGP TLS TKN RRIAL E S ALAYLHSAS																	
AK067363.q		NTDFARM IPLQELB ATNAF DTR E VEGHHGIVYKGIIIDLRVVAIKKSIVVFEI DEFIN EV PLLVYEP NGT LVDH BEGP TLS TKN RRIAL E S ALAYLHSAS																	
83571410.q		GD RKE GCCL PKW PSARD C LGD EV PLLVYEP NGT LVDH BEGP TLS TKN RRIAL E S ALAYLHSAS																	
30530009.q		NADIGQRM IMPLQELERAKATNFD DSR E IGGGHHGIVYKGILDLQWV AIKKSRIVVFEI DEFIN EV PLLVYEP NGT LVDH BEGP TLS TKN RRIAL E S ALAYLHSAS																	
83522182.q		DQNAIDK IIFSLLEELERAKATNFD DSR E LGGGGHGTVYKGILSDQRVVAIKRSKDKI KE E DEFIN EV PLLVYEP NGT LVDH BEGP TLS TKN RRIAL E S ALAYLHSAS																	
83522181.q		DENASD K IIFSLLEELERAKATNFD DTRE E LGGGGHGTVYKGILSDQRVVAIKRSKDKI KE E DEFIN EV SOPINEV AIL S INHRNVV L GCCLET EV PLLVYDFI NGS FD LH HGS SS NRFS S DD RRIAL E ACAL CYLHSAS																	
83521928.q		DENA D K IIFSLLEELERAKATNFD DTRE E LGGGGHGTVYKGILSDQRVVAIKRSKDKI KE E DEFIN EV PLLVYDFI NGS FD GHLH ADAR SS FPLS SD RRIAL E ACAL CYLHSAS																	
52150020.q		DESA S K IIFSLLEELERAKATNFD DSR E LGGGGHGTVYKGILSNQEVVAIKAKKVKI KE E DEFIN EV PLLVYDFI NGS FD LH HGS SS ISLP SD RRIAL E ACAL CYLHSAS																	
AK099018.q		DENASEK T IIFSLLEELERAKATNFD DTRE E LGGGGHGTVYKGILSNQHVAIKAKKVKI KE E DEFIN EV PLLVYDFI NGS FD LH HGS SS LSPK KD RRIAL E ACAL CYLHSAS																	
83522734.q		CHI GATE N RESS E LWDDDC L P T LGGGGHGTVYKGILSDQRVVAIKAKKVKI KE E DEFIN EV PLLVYDFI NGS FD LH HGS SS STIM S CD RRIAL E ACAL YLHSAS																	
83522718.q		EELK E ATANF D TR LGGGGHGTVYKGILSDQRVVAIKAKKVKI KE E DEFIN EV PLLVYDFI NGS FD LH HGS SS ACAL YLHSAS																	
83110024.q		RKRKN D QKQLRKKYFRKN G LLLEQLISSDECAD D ST K I F L E E L K E R A T N F D E A R Y L G S O P I N C H I A D P S M REF S L D Q R I R A E T A C A L Y L H S A S																	
48850026.q		DESAT N K T I F S L E E L E B A T N F D A T R V L G R G H G T V Y K G I L S D Q R V V A I K K R S K D K E I E I DEFIN EV PLLVYDFI NGS FD LH HGS SS VRCS S L S D D R R I R A E T A C A L Y L H S A S																	
48850023.q		NESA N K T I F S L E E L E B A T N F D T R V L G R G H G T V Y K G I L S D Q R V V A I K K R S K D K E I E I DEFIN EV S I D H R N V V K L G C C L E S EV PLLVYDFI NGS FD LH HGS SS VKSS S L S D D R R I R A E T A C A L Y L H S A S																	
48850022.q		DEKA D K T I F S L E E L E B A T N F D T R V L G R G H G T V Y K G I L S D Q R V V A I K K R S K D K E I E I DEFIN EV S I D H R N V V K L G C C L E S EV PLLVYDFI NGS FD LH HGS SS VKCL S L S D D R R I R A E T A C A L Y L H S A S																	
83530350.q		DES V A R T I F S L E E L E B A T N F D T R V L G R G H G T V Y K G I L S D Q R V V A I K K R S K D K E I E I DEFIN EV S I D H R N V V K L G C C L E S EV PLLVYDFI NGS FD LH HGS SS VKCL S L S D D R R I R A E T A C A L Y L H S A S																	
27680022.q		41270019.q	SNNVPTN R I F S L E E L E B A T N F D T R V L G R G H G T V Y K G I L S D Q R V V A I K K R S K D K E I E I DEFIN EV S I D H R N V V K L G C C L E S EV PLLVYDFI NGS FD LH HGS SS TNC L T D D R R I R A E T A C A L Y L H S A S																
AK102639.q		DENVAHD P K I F S L E E L E B A T N F H S T R V L G R G H G T V Y K G I L S D Q R V V A I K K R S K D K E I E I DEFIN EV S I D H R N V V K L G C C L E S EV PLLVYDFI NGS FD LH HGS SS SKCV L T W R R I R A E T A C A L Y L H S A S																	
27680013.q		DDS V A R T I F S L E E L E B A T N F D T R V L G R G H G T V Y K G I L S D Q R V V A I K K R S K D K E I E I DEFIN EV S I D H R N V V K L G C C L E S EV PLLVYDFI NGS FD LH HGS SS TECS L K T D D R R I R A E T A C A L Y L H S A S																	
48850017.q		DENT D K T I F S L E E L E B A T N F D T R V L G R G H G T V Y K G I L S D Q R V V A V V A K K S K D K E I E I DEFIN EV S I D H R N V V K L G C C L E S EV PLLVYDFI NGS FD LH HGS SS TECS L K T D D R R I R A E T A C A L Y L H S A S																	
83522755.q		RADIARM IIPFLAELEAKATNFD KDR E LGGGGHGTVYKGILSDLRVVAIKAKKVKI KE E DEFIN EV PLLVYDFI NGS FD LH HGS SS ACAL YLHSAS																	
18394970.p		AGPSN D V Y F D E M K K A T N Y S D G C E L G Q Q G T V Y K G I L S D I V A I K K R S K D K E I E I DEFIN EV V L S Q I N H N V V K L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DSSL T E R R I R A E T A C A L Y L H S A S																	
15218171.p		ACLS N D F K I F T E E M K E A T N Y D S G C E L G Q Q G T V Y K G I L S D I V A I K K R S K D K E I E I DEFIN EV V L S Q I N H N V V K L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DSSL T E R R I R A E T A C A L Y L H S A S																	
15218170.p		AGPSN D V Y F D E M K K A T N Y D S G C E L G Q Q G T V Y K G I L S D I V A I K K R S K D K E I E I DEFIN EV V L S Q I N H N V V K L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DSSL T E R R I R A E T A C A L Y L H S A S																	
15230844.p		AGPSN D V Y F D E M K K A T N Y D S G C E L G Q Q G T V Y K G I L S D I V A I K K R S K D K E I E I DEFIN EV V L S Q I N H N V V K L G C C L E S EV PLLVYDFI NGS FD LH HGS SS VSSL T E R R I R A E T A C A L Y L H S A S																	
15218959.p		AGPSN D V Y F D E M K K A T N Y D S G C E L G Q Q G T V Y K G I L S D I V A I K K R S K D K E I E I DEFIN EV V L S Q I N H N V V K L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DSSL T E R R I R A E T A C A L Y L H S A S																	
15218167.p		AGPSN D V Y F D E M K K A T N Y D S G C E L G Q Q G T V Y K G I L S D I V A I K K R S K D K E I E I DEFIN EV V L S Q I N H N V V K L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DSSL T E R R I R A E T A C A L Y L H S A S																	
83524721.q		ITSQGE S A K F S A E L K K A T N Y D S G C E L G Q Q G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I D H I N V V K L G C C L E S EV PLLVYDFI NGS FD LH HGS SS R O L T E D R R I R A E T A C A L Y L H S A S																	
53720019.q		MTSQGED S A K F S A E L K K A T N Y D S G C E L G Q Q G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I D H I N V V K L G C C L E S EV PLLVYDFI NGS FD LH HGS SS SSRL E D R R I R A E T A C A L Y L H S A S																	
53720022.q		HQAP D A I F T S E L E B A T N F D D R V L G G G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I D H I N V V K L G C C L E S EV PLLVYDFI NGS FD LH HGS SS VIS E D R R I R A E T A C A L Y L H S A S																	
53720023.q		QGAP D A I F T S E L E B A T N F D D R V L G G G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I D H I N V V K L G C C L E S EV PLLVYDFI NGS FD LH HGS SS VIS E D R R I R A E T A C A L Y L H S A S																	
30699443.p		GGNVQSS K F S K F E L E B A T N F D T R V L G G G T V Y K G I L S D I Q G Q G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I N H N V V L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DDY T I D V R R I R A E T A C A L Y L H S A S																	
15219445.p		GGNVQSS K F S K F E L E B A T N F D T R V L G G G T V Y K G I L S D I Q G Q G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I N H N V V L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DDY T I D V R R I R A E T A C A L Y L H S A S																	
15219140.p		EGRN K S K F S K F E L E B A T N F D T R V L G G G T V Y K G I L S D I Q G Q G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I N H N V V L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DDY T I D V R R I R A E T A C A L Y L H S A S																	
15219134.p		EGRN K S K F S K F E L E B A T N F D T R V L G G G T V Y K G I L S D I Q G Q G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I N H N V V L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DDY T I D V R R I R A E T A C A L Y L H S A S																	
15219143.p		DGVN M S F S K F S K F E L E B A T N F D T R V L G G G T V Y K G I L S D I Q G Q G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I N H N V V L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DDY T I D V R R I R A E T A C A L Y L H S A S																	
15219132.p		DGVN M S F S K F S K F E L E B A T N F D T R V L G G G T V Y K G I L S D I Q G Q G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I N H N V V L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DDY T I D V R R I R A E T A C A L Y L H S A S																	
15219130.p		NGNVDM S F S K F S K F E L E B A T N F D T R V L G G G T V Y K G I L S D I Q G Q G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I N H N V V L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DDY T I D V R R I R A E T A C A L Y L H S A S																	
15219137.p		DGSV M S F S K F S K F E L E B A T N F D T R V L G G G T V Y K G I L S D I Q G Q G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I N H N V V L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DDY T I D V R R I R A E T A C A L Y L H S A S																	
15219447.p		EGRN D S T V R S E L E B A T N F D T R V L G G G T V Y K G I L S D I Q G Q G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I N H N V V L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DYTM T E V R R I R A E T A C A L Y L H S A S																	
15222427.p		VGM Y K T I V P S L E E L E B A T N F D T R V L G G G T V Y K G I L S D I Q G Q G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I N H N V V L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DYTM T E V R R I R A E T A C A L Y L H S A S																	
30688910.p		EGYE V K T I V P S L E E L E B A T N F D T R V L G G G T V Y K G I L S D I Q G Q G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I N H N V V L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DDY T I D V R R I R A E T A C A L Y L H S A S																	
22329045.p		QGVE K A R I F S K F E L E B A T N F D T R V L G G G T V Y K G I L S D I Q G Q G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I N H N V V L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DDY T I D V R R I R A E T A C A L Y L H S A S																	
15223546.p		KGN V K T I F S K F E L E B A T N F D T R V L G G G T V Y K G I L S D I Q G Q G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I N H N V V L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DDY T I D V R R I R A E T A C A L Y L H S A S																	
15220882.p		QGR V K T I F S K F E L E B A T N F D T R V L G G G T V Y K G I L S D I Q G Q G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I N H N V V L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DDY T I D V R R I R A E T A C A L Y L H S A S																	
15219181.p		HGSV N T V P S N L E E L E B A T N F D T R V L G G G T V Y K G I L S D I Q G Q G T V Y K G I L S D I T I A K K R S K D K E I E I DEFIN EV V L S Q I N H N V V L G C C L E S EV PLLVYDFI NGS FD LH HGS SS DDY T I D V R R I R A E T A C A L Y L H S A S																	
61820005.q		SSGR T A N K F G L R A T N F D N L I G G F C T V Y K G I L S D G F V V A V K P L Y N N S Y R V E Q F N E V V L S Q I N H N V V L G C C V D L E F D D Y ML G C R L R I A V D A C A L Y L H S A S																	
15241674.p		STGKSS R I F G E I K A T N F D N L I G G F C T V Y K G I L S D G F V V A V K P L Y N N S Y R V E Q F N E V V L S Q I N H N V V L G C C V D L E F D D Y ML G C R L R I A V D A C A L Y L H S A S																	
15232348.p		STGL D R I F G E I K A T N F D N L I G G F C T V Y K																	



